The demand must be filed directly wit	h the competent	International Pre	eliminary Examining	Authority or, if two	or more Authorities	are competent
with the one chosen by the applicant,	The full name o	or two-letter code	e of that Authority n	nay be indicated by	the applicant on the	line below:

IPEA/\_\_\_\_\_

# **PCT**

## CHAPTER II



## DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.



Fo.	r International Preliminar	y Examining Authori	ty use only	
Identification of IPEA		Date of receipt of DEMAND		
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	APPLICATION	Applicant's or agent's file reference 04-007PC	
International application No. PCT/JP2004/018109	International filing date 30.11.		(Earliest) Priority date (day/month/year) 02.12.2003	
Title of invention METHOD FOR PRODUCING H BELT PRODUCED BY SAME	HELICAL SYNCHR	ONOUS BELT,	AND HELICAL SYNCHRONOUS	
Box No. II APPLICANT(S)	•			
Name and address: (Family name followed by the address must include possible BANDO CHEMICAL INDUST 2–15, Meiwa—dori 3—chome is	ΓRIES, LTD.		Telephone No. 81-78-651-6691 Facsimile No. 81-78-651-8979	
652-0883 JAPAN	rijogo ka, kobo	om, myogo	Teleprinter No.	
			Applicant's registration No. with the Office	
State (that is, country) of nationality: JAPAN		State (that is, count.	ry) of residence:	
Name and address: (Family name followed by g MATSUDA Kiyotaka c/o BANDO CHEMICAL INDI Kobe—shi, Hyogo 652–0883	USTRIES, LTD.,2		e address must include postal code and name of country.)  ori 3—chome Hyogo–ku,	
State (that is, country) of nationality:  JAPAN		State (that is, country) of residence: JAPAN		
Name and address: (Family name followed by gi OOTA Takeshi c/o BANDO CHEMICAL INDU Kobe—shi, Hyogo 652—0883 J	JSTRIES, LTD.,2		e address must include postal code and name of country.)  Ori 3-chome Hyogo-ku,	
State (that is, country) of nationality: JAPAN		State (that is, country) JAPAN	of residence:	
Further applicants are indicated on a	continuation sheet.			

Sheet No. ..2

International application No. PCT/JP2004/018109

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	ORRESPONDENCE
The following person is agent common representative	
and has been appointed earlier and represents the applicant(s) also for international p	reliminary examination.
is hereby appointed and any earlier appointment of (an) agent(s)/common repres	entative is hereby revoked.
is hereby appointed, specifically for the procedure before the International Preliment the agent(s)/common representative appointed earlier.	ninary Examining Authority, in addition to
Name and address: (Family name followed by given name; for a legal entity, full official designation.  The address must include postal code and name of country.)	Telephone No.
KODAMA Yoshihiro	81-3-3251-3951
HASEBE Zentaro	Facsimile No. 81-3-5298-6247
Enju-Ochanomizu Bldg. 3F., 17-2, Sotokanda 2-chome,	Teleprinter No.
Chiyoda-ku, Tokyo 101-0021 Japan	
	Agent's registration No. with the Office
Address for correspondence: Mark this check-box where no agent or common space above is used instead to indicate a special address to which correspondence	
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION	
Statement concerning amendments:*	
1. The applicant wishes the international preliminary examination to start on the basis of	f:
the international application as originally filed	
the description as originally filed	•
as amended under Article 34	
the claims as originally filed	
as amended under Article 19 (together with any accompany)	ng statement)
as amended under Article 34	
the drawings as originally filed	
as amended under Article 34	
2. The applicant wishes any amendment to the claims under Article 19 to be considered.	ered as reversed.
3. Where the IPEA wishes to start the international preliminary examination at the accordance with Rule 69.1(b), the applicant requests the IPEA to postpone	
examination until the expiration of the applicable time limit under Rule 69.1(d).	
4 The applicant expressly wishes the international preliminary examination to applicable time limit under Rule 54bis.1(a).	start earlier than at the expiration of the
* Where no check-box is marked, international preliminary examination will start on as originally filed or, where a copy of amendments to the claims under Article 19 and/or	
under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	re it has begun to draw up a written opinion
Language for the purposes of international preliminary examination: .ENGLISH	
which is the language in which the international application was filed.	
which is the language of a translation furnished for the purposes of internation	nal search.
which is the language of publication of the international application.	
which is the language of the translation (to be) furnished for the purposes of i	nternational preliminary examination.
Box No. V ELECTION OF STATES	
The filing of this demand constitutes the election of all Contracting States which are design	mated and are bound by Chapter II of the
PCT.	

			٠,
Sheet	ÑΛ		J

International application No.

			PCT/JP200	4/018109
Box No. VI CHECK LIST				
The demand is accompanied by the following elem Box No. IV, for the purposes of international pref	ients, in the la iminary exau	inguage referred to in nination:		onal Preliminary uthority use only not received
1. translation of international application	:	sheets		
2. amendments under Article 34	:	sheets		
<ol> <li>copy (or, where required, translation) of amendments under Article 19</li> </ol>	;	sheets		
<ol> <li>copy (or, where required, translation) of statement under Article 19</li> </ol>	:	sheets		
5. letter	:	sheets		
6. other (specify)	:	sheets		
The demand is also accompanied by the item(s) mar	ked below:			
1. X fee calculation sheet		5. statement expla	ining lack of signat	nre
2 original separate power of attorney		6. sequence listing	in electronic form	
3. original general power of attorney		7. tables in electro	nic form related to	1
<ol> <li>copy of general power of attorney; reference number, if any:</li> </ol>		8. other (specify):	,	
Box No. VII SIGNATURE OF APPLICANT, AC	ENT OR O	COMMON REPRESENT	CATIVE	
Next to each signature, indicate the name of the person signing				s from reading the demand)
KODAMA Yoshihiro				
HASEBE Zentaro				
For International	al Preliminary	Examining Authority use	only —	<del> </del>
1. Date of actual receipt of DEMAND:				
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				
The date of receipt of the demand is Al expiration of 19 months from the priority item 4 or 5, below, does not apply.		expiration of	receipt of the dem the time limit under below, does not app	Rule 54bis.1(a) and
The applicant has been informed ac  4. The date of receipt of the demand is WITHII	N the time		eceipt of the demand Rule 54 <i>bis</i> .1(a) as ex	is WITHIN the time stended by virtue of
limit of 19 months from the priority date as by virtue of Rule 80.5.  5. Although the date of receipt of the demand: expiration of 19 months from the priority delay in arrival is EXCUSED pursuant to 1	safter the date, the	expiration of	date of receipt of the time limit under val is EXCUSED pu	e demand is after the Rule 54 <i>bis</i> .1(a), the crsuant to Rule 82.
Fo	r Internationa	ıl Bureau use only		
Demand received from IPEA on:		-		

#### PATENT COOPERATION TREATY

	ATENI COOFI	ERATION TREA	1.1
From the INTERNATIONAL PRELIMINARY EXAMIN	NING AUTHORITY		
То:			PCT
KODAMA Yoshihiro			101
Enju-Ochanomizu Bldg.3F.,17- a 2-chome,Chiyoda-ku,Tokyo 1 an		OF DEMAND I	TIFICATION OF RECEIPT BY COMPETENT INTERNATIONAL ARY EXAMINING AUTHORITY
PCT/ JP2004 018109	PE402		59.3(e) and 61.1(b), first sentence trative Instructions, Section 601(a))
		Date of mailing (day/	month(sear)
		Dua or maning (tary).	
Applicant's or agent's file reference			12.07.2005
04-007PC			
International application No.	International filing da		ORTANT NOTIFICATION Priority date (day/month/year)
PCT/ JP2004 / 018109		1.2004	02.12.2003
Applicant			32.72.2333
BANDO CHEMICAL INDUSTRIES, L'	TD.		
	·······································	<del></del>	
1 . The applicant is hereby <b>notified</b> th	ot this International Pro	liminary Evamining Au	thority considers the following data as the
date of receipt of the demand for ir			
	23	06 2005	
0			- 138 At - 44
2 . The date of receipt is:			
the actual date of re	eceipt of the demand by	this Authority (Rule 61	1(b)).
the actual date of re	eceipt of the demand or	n behalf of this Authority	y (Rule 59.3(e)).
	his Authority has, in received the required cor		to correct defects in the demand (Form
3 . ATTENTION: That date of some Offices, the demand from the priority date (or latherefore be performed with other Offices, the time limit	of receipt is after the extended does not have the effecter in some Offices) (Amin 20 months from the tof 30 months(or later) time limits, Office by	epiration of 19 months from the enterest of postponing the enterest and the act priority date (or later in may nevertheless apply	rom the priority date. Consequently, in respect try into the national phase until 30 months s for entry into the national phase must some Offices). However, in respect of some . See the Annex to Form PCT/IB/30I and, for licant's Guide, Volume II, National Chapters
(If applicable) This in person on:	notification confirms	the information given by	telephone, facsimile transmission or
4 . Only where paragraph 3 applies, a c	copy of this notification	n has been sent to the Int	emational Bureau.
Name and mailing address of the IPEA/ JAPAN PATENT OFFICE 4-3, KASUMIGASEKI 3 C CHIYODA-KU, TOKYO 10 TELEPHONE NO. 03-3592-	00-8915 JAPAN	Authorized officer Commission Japan Paten	

Form PCT/IPEA/402 (April 2002)

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

1 1 1 1 1 1 1 1 1 1				
Applicant's or agent's file refe		FOR FURTHER AC	TION	See Form PCT/IPEA/416
International application No. PCT/JP2004/01	1	International filing date (a. 30.11.		Priority date (day/month/year) 02.12.2003
International Patent Classificat Int.Cl. <sup>7</sup> <i>F16G1/28</i> (2006. 01)	• •	national classification a	and IPC	
Applicant BANDO CHEMICAI	L INDU	STRIES, LTI	).	
This report is the interpolation Authority under Article     This REPORT consists     This report is also according a total of	e 35 and trans s of a total of ompanied by A	smitted to the applicant	according to Article ncluding this cover s	
sheet: and/o Admi sheet: beyon Suppl	s of the descript sheets containistrative Inst s which super and the disclosilemental Box.	iption, claims and/or daining rectifications au tructions). rsede earlier sheets, but ture in the international.	thorized by this Authority t which this Authority l application as filed,	een amended and are the basis of this report prity (see Rule 70.16 and Section 607 of the v considers contain an amendment that goes as indicated in item 4 of Box No. I and the
containing a s	sequence listin	d number of electronic ng and/or tables related Listing (see Section 80	thereto, in electronic	form only, as indicated in the Supplemental ve Instructions).
4. This report contains inc	dications relat	ting to the following it	ems:	
Box No. I 🗜	Basis of the re	eport		
Box No. II P	Priority			
Box No. III N	Von-establish	ment of opinion with r	egard to novelty, inve	ntive step and industrial applicability
Box No. IV L	ack of unity	of invention		
		ement under Article 35( explanations supporting	-	elty, inventive step or industrial applicability;
	Certain docum		,	
Box No. VII C	Certain defects	s in the international a	oplication	
Box No. VIII C	Certain observ	vations on the internation	onal application	
Date of submission of the dema	and		Date of completion of	of this report
23.06			-	25.10.2005
Name and mailing address of th	ne IPEA/JP		Authorized officer	3Ј3120
Japan Paten	t Office		MASAYUKI	
		-		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/018109

Box No. I	Basis of the report		
1. With re	gard to the language, this report is based on:		·
<b>I</b> ✓ the	international application in the language in which	n it was filed	
a tr	ranslation of the international application in	ito	, which is the language of a
tra	nslation furnished for the purposes of:		_
	international search (Rules 12.3(a) and 23.1(b)	•	
] 	publication of the international application (Ru	, ,,	
17	international preliminary examination (Rules 5	35.2(a) and/or 35.3(a))	
2. With reg	gard to the <b>elements</b> of the international applic	ation, this report is based on (repla	cement sheets which have been
	d to the receiving Office in response to an invitat		
and are	not annexed to this report):		
<b>☑</b> the	international application as originally filed/fur	nished	
the	description:		
pag	ges		as originally filed/furnished
pag	es*		
pag	es*	and the state of t	
the	claims:		
Nos	3.		as originally filed/furnished
Nos	3.*		any statement) under Article 19
Nos		received by this Authority on	71
Nos	s.* 	received by this Authority on	
the o	drawings:		
sheets/fig			as originally filed/furnished
sheets/fig	<del></del>	received by this Authority on	
sheets/fig	ys *	received by this Authority on	···
a se	quence listing and/or any related table(s) - see	Supplemental Box Relating to Sequ	ence Listing.
3. The	amendments have resulted in the cancellation	of:	
	the description mages		
		and the state of t	
<u> </u>			
	the drawings, sheets/figs the sequence listing (specify):		
<b>T</b>	any table(s) related to sequence listing (spe		
mad	report has been established as if (some of) the le, since they have been considered to go beyone 70.2(c)).	amendments annexed to this report	and listed below had not been ated in the Supplemental Box
П	the description, pages		
	the claims. Nos		
Г	the drawings, sheets/figs		
	the cocuse of lighting (and a Call		
	any table(s) related to sequence listing (spec	:ify):	
* If item 4 app	plies, some or all of those sheets may be marked	<del></del>	

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/018109

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Statement				
Novelty (N)	Claims Claims	1-5 .		
Inventive step (IS)	Claims Claims	1-5	170	
Industrial applicability (IA)	Claims Claims	1-5	NO	
	Ciainis		NO	

## PATENT COOPERATION TREATY

#### From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KODAMA Yoshihiro

Enju-Ochanomizu Bldg.3F.,17-2,Sotokanda 2-chome,Chiyoda-ku,Tokyo 1010021 Japan

# PCT

NOTIFICATIONOFTRANSMITTALOF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing (day/month/year)

01.11.2005

Applicant's or agent's file reference

PCT/JP2004/018109

04-007PC

International application No.

International filing date (day/month/year)

30.11.2004

Priority date (day/month/year)

02.12.2003

Applicant

BANDO CHEMICAL INDUSTRIES, LTD.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and Industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/JP

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

3J 3120

Commissioner of the Patent Office

Telephone No. +81-3-3581-1101 Ext. 3328

#### **ATTENTIONS**

1. Demand for copy of documents

Copy of the documents described in the international preliminary examination report and not described in the international search report.

An applicant can request the copy of these cited documents to the Japan Patent Office, however, National Center for Industrial Property Information and Training (Japan Patent Office building 2nd floor) handles inspection and copying of official gazettes and copying of other document etc.

[Contact and Reference]

National Center for Industrial Property Information and Training

〒100-0013

3-4-3 Kasumigaseki Chiyoda-ku Tokyo

(Japan Patent Office building 2nd floor)

(Official gazettes) Industrial Property Information Reference Department

TEL: 03-3581-1101 Ext. 3811,3812

(Others) Industrial Property Reference Materials Department

TEL: 03-3581-1101 Ext. 3831,3832,3833

Japan Patent Information Organization also services sales of the copy of these cited documents. Those who request copying of the cited documents should pay attention to the following points.

[Application Method]

- (1) As for Patent (Utility Model, Design) Gazette, the following points shall be defined clearly.
- O Types of patent, utility model, and design
- O Fiscal year and number of publication of application or publication of unexamined application (or patent number, registration number)
- O Necessary number of paper sheets
- (2) As for documents except for the gazette, the following points are required attention.
- O Be sure to attach the copy of the international preliminary examination report (which shall be returned).

[Application and Reference]

〒135-0016

4-1-7 Toyo Koto-ku, Tokyo

Sato Daiya Building

Foundation of Japan Patent Information Organization

Information Processing Department

Copy Service section

TEL: 03-3508-2313

- Note) The period for requesting the copy of the documents to Japanese Patent Office is set to 7 years from the international application date.
- 2. It is necessary to submit the copy of international application (except for cases of already transmitted from the International Bureau) and its prescribed translation, and to pay the national fee. Respective countries set different periods so as to be required attention. (See Treaty Article 22, Article 39, and Article 64 (2) (a) (i))